Metastasis of Rare Tumor at an Usual Site-A Case Report

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Abstract

Metastasis to the breast from extra mammary sites is very rare, constituting only 1 to 2 percent of metastasis. Lymphoma, malignant melanoma and bronchial carcinoma are the malignancies which metastasize to the breast. Metastasis to the breast in a case of primary anorectal melanoma is rare with only few cases reported in literature.

We present a case of a 40 year old female who presented with a lump in the left breast. She had history of malignant melanoma of anorectal region for which she underwent anterior resection 6 months back. We did FNAC of left breast lump and found metastasis. Unfortunately patient died within few days.

Introduction

Primary anorectal melanoma is very rare. The incidence is 1-3% of all anorectal malignancies. Most of these cases occur between the fifth to sixth decade of life [1]. The tumor has very high metastatic potential. Metastasis of anorectal melanoma to breast is very rare. Only few cases are reported in literature [2,3]. The rarity of this case has prompted us to present this case.

Case History

A 50 year old female presented with lump in left breast since 6 months. She had a previous history of malignant melanoma of anorectal region with positive lymph nodes in pelvic and left inguinal region. The patient was operated and was on chemotherapy. We received a specimen of rectum measuring 20×6×2 cm. It was showing an ulceroproliferative growth with blackish discoloration and measuring 5×4×2.8 cm. The rectal mass on histopathology examination was a malignant melanoma. The tumor was invading the muscularis propria. On Immunochemistry, the tumor was positive for s100 and Malan A and negative for HMB 45, CK and LCA. She was asymptomatic for 6 months post operatively when she noticed a painless, small lump in the left breast. The lump gradually increased in size. On examination, a lump was present in upper and inner quadrant of left breast measuring around 6×5×4 cm (Figure 1). The lump was not fixed to the underlying structures. The external surface of lump was bosselated and consistency was varying from soft, firm to hard. FNAC done from different areas yield same picture. The smears showed round to polygonal cells arranged in groups and singly scattered (Figure 2). Binucleated and multinucleated cells were also seen (Figure 3). The nuclei were hypercromatic, pleomorphic with prominent 1-2 nucleoli. Black colored pigment was seen in cytoplasm of malignant cells and also in macrophages (Figure 4). Special stain Masson’s Fontana confirmed the presence of melanin [Figure 5].

Discussion

Anorectal melanoma is a very rare tumor with incidence of 1-3% of all anorectal tumors. They are common in fifth to sixth decade of life. They have high malignant potential. It is reported that 38% of tumor metastasize at the time of diagnosis [4]. They spread by haematogenous or lymphatic route. Distant metastasis is common to lungs, liver and bone. Metastasis to breast is rare and very few cases are reported in literature.

Metastasis to breast from extramammary tumors is uncommon accounting to 1.3 to 6.6% of all malignant tumors of the breast [5]. The extra mammary tumors often metastasising to breast include lymphoma, cutaneous melanoma and lung tumors [6]. The most common primary sites of melanoma that metastasize to the breast are the upper trunk and upper extremities; lower extremity primary lesions rarely metastasize to the breast [7]. Because proximity seems to matter, it has been postulated that spread to the breast may occur through lymphatic channels, as well as hematogenously [2]. Metastasis from anorectal melanoma to breast is very very rare .Only few cases are described in literature.
Primary and metastatic disease of breast is difficult to differentiate on the basis of clinical and radiological findings. The differentiation is necessary because of the different treatment which needs to be given to the patient. Wide local excision is sufficient to control metastatic disease of breast. It is essential to recognize malignant tumors in the breast as metastatic malignant melanoma to avoid unnecessary surgery.

The treatment of metastatic malignant melanoma to breast melanoma to breast is excision of the lesion with clear margins, followed by systemic therapy for disease. Regardless of surgical treatment, widespread disseminated disease has poor prognosis with five year survival of less than 20% [8].

It is postulated that metastasis from anal malignant melanoma occurs in younger females and it has hormonal influence [9]. The relatively young age at diagnosis has been attributed to the fact that the breast is not a favorable site for metastasis after menopause because of the larger areas of fibrous tissue and the relatively poor blood supply [10]. Others have suggested a direct role of estrogen in facilitating metastatic spread [9]. Metastasis to breast is usually associated with widespread dissemination of the tumor to brain, lung and liver. Though our patient did not show any such signs and symptoms, complete evaluation of patient should be done. In our case, this could not be done as patient expired within few days. Lung metastasis was suspected cause of death.

To conclude, primary anorectal melanoma with metastasis to the breast is rare with only few cases reported. It is essential to diagnose this correctly as the prognosis and treatment depends on the diagnosis.

References

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